

## SEQUENCE LISTING

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MATTHEWS, RUTH CHRISTINE

<120> MEDICAMENT

<130> 050885-0281578

<140> PCT/GB00/00237

<141> 2000-01-28

<140> GB 9902555.3

<141> 1999-02-05

<150> 09/889,314

<151> 2001-07-16

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 1491

<212> DNA

<213> Chlamydia pneumoniae

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<221> CDS

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aat atc atg tct caa gtt ctg aca tcg aca ccc cag ggc gtg ccc caa	96
Asn Ile Met Ser Gln Val Leu Thr Ser Thr Pro Gln Gly Val Pro Gln	
20 25 30	
caa gat aag ctg tct ggc aac gaa acg aag caa ata cag caa aca cgt	144
Gln Asp Lys Leu Ser Gly Asn Glu Thr Lys Gln Ile Gln Gln Thr Arg	
35 40 45	
cag ggt aaa aac act gag atg gaa agc gat gcc act att gct ggt gct	192
Gln Gly Lys Asn Thr Glu Met Glu Ser Asp Ala Thr Ile Ala Gly Ala	
50 55 60	
tct gga aaa gac aaa act tcc tcg act aca aaa aca gaa aca gct cca	240
Ser Gly Lys Asp Lys Thr Ser Ser Thr Thr Lys Thr Glu Thr Ala Pro	
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caa cag gga gtt gct gct ggg aaa gaa tcc tca gaa agt caa aag gca	288
Gln Gln Gly Val Ala Ala Gly Lys Glu Ser Ser Glu Ser Gln Lys Ala	
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ggt gct gat act gga gta tca gga gcg gct gct act aca gca tca aat	336
Gly Ala Asp Thr Gly Val Ser Gly Ala Ala Ala Thr Thr Ala Ser Asn	
100 105 110	
act gca aca aaa att gct atg cag acc tct att gaa gag gcg agc aaa	384
Thr Ala Thr Lys Ile Ala Met Gln Thr Ser Ile Glu Glu Ala Ser Lys	
115 120 125	
agt atg gag tct acc tta gag tca ctt caa agc ctc agt gcc gcg caa	432
Ser Met Glu Ser Thr Leu Glu Ser Leu Gln Ser Leu Ser Ala Ala Gln	
130 135 140	
atg aaa gaa gtc gaa gcg gtt gtt gtt gct gcc ctc tca ggg aaa agt	480
Met Lys Glu Val Glu Ala Val Val Val Ala Ala Leu Ser Gly Lys Ser	
145 150 155 160	
tcg ggt tcc gca aaa ttg gaa aca cct gag ctc ccc aag ccc ggg gtg	528
Ser Gly Ser Ala Lys Leu Glu Thr Pro Glu Leu Pro Lys Pro Gly Val	
165 170 175	
aca cca aga tca gag gtt atc gaa atc gga ctc gcg ctt gct aaa gca	576
Thr Pro Arg Ser Glu Val Ile Glu Ile Gly Leu Ala Leu Ala Lys Ala	
180 185 190	
att cag aca ttg gga gaa gcc aca aaa tct gcc tta tct aac tat gca	624
Ile Gln Thr Leu Gly Glu Ala Thr Lys Ser Ala Leu Ser Asn Tyr Ala	
195 200 205	
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Ser Thr Gln Ala Gln Ala Asp Gln Thr Asn Lys Leu Gly Leu Glu Lys	
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Gln Ala Ile Lys Ile Asp Lys Glu Arg Glu Glu Tyr Gln Glu Met Lys	
225 230 235 240	
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Ala Ala Glu Gln Lys Ser Lys Asp Leu Glu Gly Thr Met Asp Thr Val	
245 250 255	
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260 265 270	
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Val Ala Ala Ile Phe Thr Cys Gly Ala Gly Leu Ala Gly Leu Ala Ala	
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Gly Ala Ala Val Gly Ala Ala Ala Ala Gly Gly Ala Ala Gly Ala Ala	
290 295 300	
gcc gca acc acg gta gca aca caa att aca gtt caa gct gtt gtc caa	960
Ala Ala Thr Thr Val Ala Thr Gln Ile Thr Val Gln Ala Val Val Gln	
305 310 315 320	

gcg gtg aaa caa gct gtt atc aca gct gtc aga caa gcg atc acc gcg	1008
Ala Val Lys Gln Ala Val Ile Thr Ala Val Arg Gln Ala Ile Thr Ala	
325 330 335	
gct ata aaa gcg gct gtc aaa tct gga ata aaa gca ttt atc aaa act	1056
Ala Ile Lys Ala Ala Val Lys Ser Gly Ile Lys Ala Phe Ile Lys Thr	
340 345 350	
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Leu Val Lys Ala Ile Ala Lys Ala Ile Ser Lys Gly Ile Ser Lys Val	
355 360 365	
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Phe Ala Lys Gly Thr Gln Met Ile Ala Lys Asn Phe Pro Lys Leu Ser	
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Lys Val Ile Ser Ser Leu Thr Ser Lys Trp Val Thr Val Gly Val Gly	
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Val Val Val Ala Ala Pro Ala Leu Gly Lys Gly Ile Met Gln Met Gln	
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Gln Gln Ala Ser Lys Ile Ala Ser Lys Gln Thr Gly Glu Ser Asn Glu	
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465 470 475 480	
gcc gca atc agc gga gcc atc gct ggc gca cat aaa acc aat aat ttt	1488
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&lt;210&gt; 2

&lt;211&gt; 496

&lt;212&gt; PRT

&lt;213&gt; Chlamydia pneumoniae

&lt;400&gt; 2

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Gln	Asp	Lys	Leu	Ser	Gly	Asn	Glu	Thr	Lys	Gln	Ile	Gln	Gln	Thr	Arg			
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Gln	Gly	Lys	Asn	Thr	Glu	Met	Glu	Ser	Asp	Ala	Thr	Ile	Ala	Gly	Ala			
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Gln	Gln	Gly	Val	Ala	Ala	Gly	Lys	Glu	Ser	Ser	Glu	Ser	Gln	Lys	Ala			
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Met	Lys	Glu	Val	Glu	Ala	Val	Val	Val	Ala	Ala	Leu	Ser	Gly	Lys	Ser			
	145				150					155					160			
Ser	Gly	Ser	Ala	Lys	Leu	Glu	Thr	Pro	Glu	Leu	Pro	Lys	Pro	Gly	Val			
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Val	Ala	Ala	Ile	Phe	Thr	Cys	Gly	Ala	Gly	Leu	Ala	Gly	Leu	Ala	Ala			
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Ala	Val	Lys	Gln	Ala	Val	Ile	Thr	Ala	Val	Arg	Gln	Ala	Ile	Thr	Ala
325								330				335			
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340								345				350			
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355								360				365			
Phe	Ala	Lys	Gly	Thr	Gln	Met	Ile	Ala	Lys	Asn	Phe	Pro	Lys	Leu	Ser
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465				470				475				480			
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<210> 3
<211> 302
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Description of Artificial Sequence: Codon  
optimised N-terminal section of Chlamydia  
pneumoniae protein

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<220>
<221> UNSURE
<222> (1)..(30)
<223> S-tag and thrombin cleavage site
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<220>
<223> Positions (297)..(302) comprise Histidine tag
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Asp	Thr	Asn	Met	Ser	Ile	Ser	Ser	Ser	Ser	Gly	Pro	Asp	Asn	Gln	Lys	
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Ser	Gly	Lys	Asp	Lys	Thr	Ser	Ser	Thr	Thr	Lys	Thr	Glu	Thr	Ala	Pro	
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Gln	Gln	Gly	Val	Ala	Ala	Gly	Lys	Glu	Ser	Ser	Glu	Ser	Gln	Lys	Ala	
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Met	Lys	Glu	Val	Glu	Ala	Val	Val	Val	Ala	Ala	Leu	Ser	Gly	Lys	Ser	
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		195						200						205		
Thr	Pro	Arg	Ser	Glu	Val	Ile	Glu	Ile	Gly	Leu	Ala	Leu	Ala	Lys	Ala	
		210						215						220		
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Ala	Ala	Glu	Gln	Lys	Ser	Lys	Asp	Leu	Glu	Gly	Thr	Met	Asp	Thr	Val	
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<212> PRT

<213> Chlamydia pneumoniae

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<213> Chlamydia pneumoniae

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<211> 9

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Thr Ala Ile Glu Glu Ala Ser Lys Ser

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<210> 13

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<212> PRT

<213> Chlamydia pneumoniae

<400> 13

Ser Lys Ser Met Glu Ser Thr Leu Glu

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<210> 14

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Glu Tyr Gln Glu Met Lys Ala Ala Glu

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<210> 15

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